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(54) COMPOSITE MATERIAL

(57)Abstract

PROBLEM TO BE SOLVED: To obtain a composite material which possesses excellent machanical strength and heat resistance by dispersing and incorporating in a molecular state a clay mineral having a specified layer thickness and a specified layer to- layer spacing in a resin contg. a thermosetting resin. SOLUTION: The resin in the composite material is a resin contg. a thermosetting resin and comprises eith r a thermosetting resin or a mixture of a thermosetting resin with other polymeric compd. Besid s the blend polymer, graft polymer, copolymer, block copolymer and the like may be used as the mixtur . The thermosetting resin is at least one regin selected from among phenolic resin, apoxy resin, unsatd. polyester resin, alkyd resin and the like. The layered clay mineral is a phyllosilicate mineral comprising magnesium silicate layer or an aluminum silicate layer which has a thickness of 7 to 12 Å and a layer-to-layer spacing of not less than 30 &angst:. The layered clay mineral is negatively charged due to isomorphous substitution or the like. The layered clay mineral has an occupied layer surface area of 25 to 200 &angst: 2 per univalence of the negative charge, a layer to layer spacing of not less than 30 Å and is incorporated in an amt. of 0.5 to 150 pts.wt. based on 100 pts.wt. resin.

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